

WATER WELL REPORT
STATE OF WASHINGTONStart Card No.
Water Right Permit No. 016846

30/2-32E05

(1) OWNER: Name NIERMEYER, BRUCE Address 305 S. STATE COLLEGE ANAHEIM, CA 92806-

(2) LOCATION OF WELL: County ISLAND - SW 1/4 NW 1/4 Sec 31 T 30 N., R 2 WM
(2a) STREET ADDRESS OF WELL (or nearest address) SMUGGLER COVE RD.

(3) PROPOSED USE: DOMESTIC (1B) WELL LOG

(4) TYPE OF WORK: Owner's Number of well 08562
NEW WELL Method: ROTARY
Formation: Describe by color, character, size of material and structure, and show thickness of aquifers and the kind and nature of the material in each stratum penetrated, with at least one entry for each change in formation.

(5) DIMENSIONS: Diameter of well 6 inches
Drilled 492 ft. Depth of completed well 492 ft.

(6) CONSTRUCTION DETAILS:
Casing installed: 6 Dia. from +3 ft. to 478.5 ft.
WELDED Dia. from ft. to ft.
Dia. from ft. to ft.

Perforations: NO
Type of perforator used
Size of perforations in. by in.
perforations from ft. to ft.
perforations from ft. to ft.
perforations from ft. to ft.

Screens: YES
Manufacturer's Name JOHNSON
Type STAINLESS STEEL Model No.
Diam. 4 slot size 8 from 481 ft. to 485 ft.
Diam. 4 slot size 10 from 485 ft. to 489 ft.

Gravel packed: NO
Gravel placed from ft. to ft. Size of gravel ft.

Surface seal: YES To what depth? 18 ft.
Material used in seal PUDDLING CLAY
Did any strata contain unusable water? NO
Type of water? Depth of strata ft.
Method of sealing strata off

(7) PUMP: Manufacturer's Name
Type H.P.

(8) WATER LEVELS: Land-surface elevation
Static level 291 ft. above mean sea level ... ft. Date 07/13/88
Artesian Pressure lbs. per square inch Date / /
Artesian water controlled by

(9) WELL TESTS: Drawdown is amount water level is lowered below static level.
Was a pump test made? NO If yes, by whom?
Yield: gal./min with ft. drawdown after hrs.

Recovery data
Time Water Level Time Water Level Time Water Level

Date of test / /
Bailer test 7 gal./min. 25.5 ft. drawdown after 2 hrs.
Air test 12 gal./min. w/ stem set at 480 ft. for 1 hrs.
Artesian flow g.p.m. Date
Temperature of water Was a chemical analysis made? NO

MATERIAL FROM TO
TOPSOIL 0 2
BROWN SAND & GRAVEL & CLAY 2 28
BROWN SAND 28 48
GRAY CLAY 48 51
GRAY SILT SAND WOOD 51 56
& - SEEPAGE 51 56
GRAY CLAY 56 89
GRAY CLAY & GRAVEL 89 115
BROWN SAND GRAVEL & CLAY 115 125
SANDY BROWN CLAY & LITTLE GRAVEL 125 14
BROWN MED. SAND & CLAY 14 14
BROWN GRAVEL & CLAY 14 14
BROWN GRAVEL SAND & CLAY 14 14
BROWN & GRAY CLAY 14 14
GRAY CLAY 14 14
GRAY CLAY & WOOD 14 14
LAYERED GRAY CLAY 14 14
GRAY CLAY & SILT 14 14
GRAY CLAY & WOOD 14 14
SANDY GRAY CLAY WOOD 14 14
& SCATRD. GRAV. 14 14
GRAY CLAY 14 14
GRAY CLAY & - SEEPAGE 14 14
GRAY CLAY & SILT - SEEPAGE 14 14
GRAY CLAY 14 14
GRAY CLAY & LITTLE GRAVEL 14 14
SANDY GRAY CLAY & GRAVEL 14 14
SANDY GRAY CLAY & LITTLE GRAVEL 14 14
SANDY GRAY CLAY & GRAVEL 14 14
HARD LAYERED SANDY 14 14
GRAY CLAY GRAVEL & WATER 14 14

Work started 07/08/88 Completed 07/13/88

WELL CONSTRUCTOR CERTIFICATION:
I constructed and/or accept responsibility for construction of this well, and its compliance with all Washington well construction standards. Materials used and the information reported above are true to my best knowledge and belief.

NAME HAYES WELL DRILLING/PUMPS
(Person, firm, or corporation) (Type or print)
ADDRESS 556 ERSKIN RD.
[SIGNED] License No. 762
Contractor's Registration No. HAYESWD 1870 W Date 07/14/88

RECEIVED

JUL 18 1988

ISLAND COUNTY
HEALTH DEPARTMENT

OER - SEE REVERSE SIDE

Well No 30/2-32E05
14 JUL 88
See Attached Sheet

EXAMPLE OF INCORRECT WELL LOG
Lack of Accurate Information to Determine
Status of Saltwater Intrusion

This well log of Bruce Niermeyer's well is important because of the apparent error of the actual location and depth. It illustrates the need for field checking of all well reports by competent hydrogeologists.

Location of the well shown on the Well Report is in error by one mile. The description of the location as stated is:

T30N., R2_, SW 1/4 of the NW 1/4, Sec. 31,

which places it one mile off-shore in Puget Sound northbound shipping lane. Note the incomplete Range figure and the incorrect Section Number.

Actual location of the well is:

T30N., R2E - SW 1/4 of the NW 1/4, Sec. 32.

Physically it is 1200-feet inland from saltwater and 200-feet west of Smuggler's Cove Road.

The well number should be 30/2-32E05.*ILC 275+093*

These two errors in this legal document can result in tax assesment errors, water right disputes, as well as compounded errors throughout the State's computer records. They also place the well driller's license in jeopardy.

Casing elevation is not shown, but a topographical map shows ground elevation to be 280 to 300 feet. The casing elevation, because of it's importance, should be established by differential leveling.

The log is also unsigned.

A minimum of two chemical analyses should be made for:

1. Sodium and chloride to detect saltwater intrusion.
2. A test for arsenic should be done to detect arsenic poisoning.

/s/HARRY E. WILBERT, Prof. Engr. #2341

Submitted this 22 day of September 1988.

Harry E. Wilbert
HARRY E. WILBERT, P.E. #2341
WILBEE REASEARCH

HEW/mmww

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Casing elevation 280 by Alt. 22 June 1989
Static water level -11.0 13 July 1988